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## VARIANTS OF THE TULAREMIA MICROBE DUE TO EXTERNAL FACTORS

I. E. Mayskiy  
Cand Med Sci

There is no doubt that the various facts available to Soviet Science must be reviewed in the light of the new theories of Lysenko. A review of Gayskiy's work with living tularemia vaccine should be reviewed along these new lines of thought. The results which Gayskiy obtained conclusively proved the theories propounded by Michurin and Lysenko, that the influence of external factors brings about changes in an organism.

The tularemia microbe is considered the best specimen for the study of variants of microorganisms to disprove Weismannism in microbiology. Gayskiy's theories give no consideration whatsoever to the concept of genes, which in any case are not understood by anybody. The supporters of the gene "theory" contend that variants are a recombination of these elusive substances. They do not consider the effect of external factors and do not believe that the cell is the basis of heredity. Gayskiy, however, proved that changes which are brought about in a tularemia microbe cell can be and are inherited. Gayskiy proclaimed the indisputable fact that the cell is the transmitter of irreversible hereditary changes and that these changes can be controlled and are in no way accidental.

Care must be taken not to underestimate the value of Gayskiy's work for obtaining attenuated vaccine strains from virulent cultures of tularemia microbes. All of the data available to date confirms the value of Gayskiy's methods; strains which he prepared in 1943 are still effective and have high immunogenic properties. This obviously is a triumph for those who support the attenuation method. Experiences in past cases of mass vaccination of populations indicated that the vaccines used were not strong enough. This can be attributed to a selection of initially weak strains. Many of the strains became weak during

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